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Application No.	Applicant(s)
10/666,798	BOSSEN, FRANK JAN
Examiner	Art Unit
Brian Young	2819
1. This communication is responsive to the application filed 9/18/03.	
3. The drawings filed on 18 September 2003 are accepted by the Examiner.	
der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No cuments have been received in this	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.	
t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date	
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).	
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.	
6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	te ´
	Brian Young  ars on the cover sheet with the council COR REMAINS) CLOSED in this apport of the appropriate communication GHTS. This application is subject to and MPEP 1308.  [18/03].  The Examiner.  Ithe Examiner in this application in the council in this application.  Ithe Examiner in the Council in the Council in this application.  Ithe Examiner in the Council in th

Application/Control Number: 10/666,798

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- 1. Claims 1-25 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the method for creating a state machine for probability estimation comprises assigning probabilities to states of a look up table (LUT), including setting a probability for each state i of the states equal to the highest probability of the LPS multiplied by the adaptation rate to the power i, where i is a number for a given state and the adaptation rate is smaller than 1 and generating state transitions for states in the LUT to be transitioned to upon observing an MPS and an LPS, wherein the next state to which the state machine transitions from a current state when an MPS is observed is a next state higher than the current state if the current state is not the highest state and is the current state if the current state is the highest state and the next state to which the state machine transitions from a current state when an LPS is observed for a plurality of states is a rounded version of a result of the claimed calculation, has not been shown in the prior art.
- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pennebaker et al disclose a computer apparatus and methodology for adapting the value of a probability of the occurrence of a first of two binary symbols which includes (a) maintaining a count of the number k of occurrences of the first symbol; (b) maintaining a total count of the number n of occurrences of all symbols; (c) selecting confidence limits for the probability; and (d) when the probability is outside the confidence limits, effectuating a revision in the value of the probability directed toward restoring confidence in the probability value. The number of allowed

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probabilities is, optionally, less than the total number of possible probabilities given the probability precision. Moreover, an approximation is employed which limits the number of probabilities to which a current probability can be changed, thereby enabling the probability adaptation to be implemented as a deterministic finite state machine.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Young whose telephone number is 571-272-1816. The examiner can normally be reached on Mon-Fri 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian Young

Primary Examiner

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